

### Abstract Of The Disclosure

A method for improving the resolution of an A/D converter and/or a converter system having an S/H device and an A/D converter is described. In order to improve the resolution of the A/D converter, an auxiliary signal is superposed on an analog signal, and the superposed  
5 signal is sampled and converted into digital output values using the A/D converter. Based on the digital output values, it is possible to determine an output value having higher resolution, e.g., by averaging.